WHAT IS CLAIMED IS:

1. A radio communication system comprising a base station and a mobile terminal, said base station transmitting a data signal to said mobile terminal through a forward channel and transmitting one of a first power control signal indicating the positive of a received signal from said mobile terminal and a second power control signal indicating the negative of said received signal in accordance with the positive or negative of said received signal, said mobile terminal transmitting the data signal to said base station through a first reverse channel indicating an existing traffic channel and a second reverse channel indicating a traffic channel added for data communication and controlling an operation to increase a transmission power of the data signal to be transmitted to said base station when said second power control signal is received;

wherein said mobile terminal comprises:

a receiving unit for receiving said first and second power control signals;

a transmission power control unit for controlling a power of the transmission signal of said reverse channel based on said first and second power control signals which are received by said receiving unit; and

a transmission control unit for monitoring whether or not a value of said transmission power controlled by said transmission power control unit exceeds a predetermined maximum value and transmitting the data signal to said base station only through said first reverse channel when said transmission-power value reaches said maximum value and said second power control signal is continuously received for a predetermined time.

2. A system as claimed in claim 1, wherein said first power control signal has a power control bit "0" and said second power control signal has a power control bit "1".

3. A system as claimed in claim 2, wherein said receiving unit has a power control bit reading unit for reading said power control bits "0" and "1".

4. A system as claimed in claim 1, wherein said transmission control unit has a counter for counting the number of the second power control signals to be continuously received by said receiving unit, and transmits said data signal only through said first reverse channel when a counted value of said counter exceeds a predetermined threshold.

5. A system as claimed in claim 4, wherein said first reverse channel is a reverse fundamental channel and said second reverse channel is a reverse supplemental channel.

6. A radio communication system comprising a base station and a mobile terminal, said base station transmitting a data signal to said mobile terminal through a forward channel and transmitting one of a first power control signal indicating the positive of a received signal from said mobile terminal and a second power control signal indicating the negative of said received signal in accordance with the positive or negative of said received signal, said mobile terminal for transmitting a data signal to said base station through a first reverse channel indicating an existing traffic channel and a second reverse channel indicating a traffic channel added for data communication and controlling an operation to increase a transmission power of the data signal to be transmitted to said base station when said second power control signal is received;

wherein said mobile terminal comprises:

a receiving unit for receiving said first and second power control signals;

a transmission power control unit for controlling a power of the transmission signal of said reverse channel based on said first and second power control signals which are received by said receiving unit; and

a transmission control unit for monitoring whether or not a value of the transmission power controlled by said transmission power control unit exceeds a predetermined maximum value and transmitting the data signal to said base station only through said first reverse channel when said transmission-power value reaches said maximum value and said maximum value of the transmission power is continuously detected for a predetermined time.

7. A system as claimed in claim 6, wherein said transmission control unit has a timer for counting a continuous detecting time of said maximum transmission-power value and controls an operation to transmit a signal through the first reverse channel when said timer counters a predetermined time.

8. A system as claimed in claim 7, wherein said first reverse channel is an reverse fundamental channel and said second reverse channel is an reverse supplemental channel.